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J. L. Baer

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Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 23

July 2001

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Since the early days of logic programming, researchers in the field realized the potential for exploitation of paral transparency, among other characteristics, make logic programs interesting candidates for obtaining speedups the irregular computatio ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, prolog

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Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 8 Is August 1986

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Jeffrey Scott Vitter June 2001

ACM Computing Surveys (CSUR), Volume 33 Issue 2

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Data sets in large applications are often too massive to fit completely inside the computers internal memory. The be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of ex consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memo

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Technical Committee X3H3 - Computer Graphics

February 1984 ACM SIGGRAPH Computer Graphics, Volume 18 Issue SI

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Thomas Kunz, Michiel F. H. Seuren Proceedings of the 1997 conference of the Centre for Advanced Studies on Colla

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Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagra event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do n non-trivial commun ...

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Richard P. Case, Andris Padegs

January 1978

Communications of the ACM, Volume 21 Issue 1

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Additional Information: full citation, a

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Keywords: architecture, computer systems, error handling, instruction sets, virtual storage

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C. V. Ramamoorthy, H. F. Li

January 1977 ACM Computing Surveys (CSUR), Volume 9 Issue 1

Full text available: pdf(3.53 MB)

Additional Information: full citation, references, citings, index terms

10 The structure of Cedar

Daniel C. Swinehart, Polle T. Zellweger, Robert B. Hagmann

June 1985

Proceedings of the ACM SIGPLAN 85 symposium on Language issues in program

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single programming language, also called Cedar. We will emphasize the extent to which the Cedar language, wit Laboratory (CS ...

11 A dynamic view-oriented group communication service

Roberto De Prisco, Alan Fekete, Nancy Lynch, Alex Shvartsman

June 1998 Proceedings of the seventeenth annual ACM symposium on Principles of distributed computi

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12 Piranha: a scalable architecture based on single-chip multiprocessing

Luiz André Barroso, Kourosh Gharachorloo, Robert McNamara, Andreas Nowatzyk, Shaz Qadeer, Barton Sano, Scoti May 2000 ACM SIGARCH Computer Architecture News, Proceedings of the 27th annual int

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The microprocessor industry is currently struggling with higher development costs and longer design times that are especially ill suited for important commercial applications, such as on-line transaction processing (OLTP), wh constitute by fa ...

13 PELLPACK: a problem-solving environment for PDE-based applications on multicomputer platforms

E. N. Houstis, J. R. Rice, S. Weerawarana, A. C. Catlin, P. Papachiou, K.-Y. Wang, M. Gaitatzes

March 1998

ACM Transactions on Mathematical Software (TOMS), Volume 24 Issue 1

March 1998 ACM Transactions on Mathematical Software (TO Full text available: 20 pdf(28.30 MB)

Additional Information: full citation, a

The article presents the software architecture and implementation of the problem-solving environment (PSE) PELLPACK incorporates many PDE solving systems, and some of these, in turn, include several specific PDE solvi problems, Since a PSE should p ...

Keywords: PDE language, execution models, knowledge bases, libraries, parallel reuse methodologies, problem

14 Database concurrency control using data flow graphs

M. H. Eich, David L. Wells June 1988

ACM Transactions on Database Systems (TODS), Volume 13 Issue 2

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A specialized data flow graph, Database Flow Graph (DBFG) is introduced. DBFGs may be used for scheduling da intratransaction dependencies, and is constructed from the Transaction Flow Graphs (TFG) of active transactions

15 Interactive Editing Systems: Parl II

Norman Meyrowitz, Andries van Dam

September 1982 ACM Computing Surveys (CSUR), Volume 14 Issue 3

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Additional Information: full citation, references, citings, index terms

16 "Topologies"—distributed objects on multicomputers

Karsten Schwan, Win Bo

May 1990

ACM Transactions on Computer Systems (TOCS), Volume 8 Issue 2

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Application programs written for large-scale multicomputers with interconnection structures known to the prograstructures implement a wide variety of functions, including the exchange of data or control information relevant program control, and so o ...

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17 Optimizing data aggregation for cluster-based internet services

Lingkun Chu, Hong Tang, Tao Yang, Kai Shen

June 2003 ACM SIGPLAI

ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN symposium on P

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Large-scale cluster-based Internet services often host partitioned datasets to provide incremental scalability. The paper presents the design and implementation of a programming primitive -- Data Aggregation Call (DAC) -- to reduction ope ...

Keywords: cluster-based network services, fault tolerance, load-adaptive tree formation, response time, scalab

18 A dynamic multithreading processor

Haitham Akkary, Michael A. Driscoll

November 1998 Proceedings of the 31st annual ACM/IEEE international symposium on Microarchitecture

Full text available: pdf(2.67 MB)

Additional Information: full citation, references, citings, index terms

19 Compiling nested data-parallel programs for shared-memory multiprocessors

Siddhartha Chatterjee

July 1993 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 15 Issue 3

Full text available: pdf(4.17 MB)

Additional Information: full citation, references, citings, index terms, review

Keywords: compilers, data parallelism, shared-memory multiprocessors

20 The family of concurrent logic programming languages

Ehud Shapiro

September 1989 ACM Computing Surveys (CSUR), Volume 21 Issue 3

Full text available: pdf(9.62 MB)

Additional Information: full citation, a

Concurrent logic languages are high-level programming languages for parallel and distributed systems that offer preserve many advantages of the abstract logic programming model, including the logical reading of programs a and the amenability to metaprogrammin ...

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